What is claimed is

1. A method, comprising:

obtaining a plurality of e-mails intended for distribution to a plurality of respective destinations; and processing the plurality of e-mails solely within non persistent storage, without requiring that information indicative of the e-mails be written to and then read from persistent storage during the processing of the e-mails.

- 2. A method as in claim 1, further comprising storing, in persistent storage, recovery information indicative of the processing, said recovery information being used for recovery from a system fault.
- 3. A method as in claim 2, wherein said recovery information includes information indicative of a plurality of e-mails, wherein each information indicative of each e-mail is indicative of less than the entire e-mail.
- 4. A method as in claim 3, wherein said information indicative of the e-mail includes a bit vector.

- 5. A method as in claim 1, wherein said processing arranging information about the e-mails into queues, each queue representing a single domain, and further comprising sending e-mails to a recipient, by sending a plurality of e-mails from the queue to a single domain, at a specific sending instance.
- 6. A method as in claim 5, wherein said sending comprises opening a communication channel to a single specified domain, sending a plurality of e-mails within the single communication channel.
- 7. A method as in claim 3, wherein said recovery information includes numerical designations which represent each e-mail, and a state of processing of said e-mails.
- 8. A method as in claim 5, further comprising selecting a queue to be processed, and sending e-mails from the queue all at once to the single domain.
- 9. A method as in claim 8, wherein said selecting comprises selecting a queue which has the greatest number of the e-mails within the queue.

- 10. A method as in claim 8, wherein said selecting comprises selecting a queue which has existed for greatest period of time.
- 11. A method as in claim 8, further comprising, during selection of a first queue, asynchronously looking up domain name server information for a second queue, different than the first, selecting queue.
- 12. A method as in claim 1, further comprising processing the e-mails by separating personalized information about each e-mail from non-personalized information.
- 13. A method as in claim 12, wherein said nonpersonalized information includes destination information
 for the e-mail.
- 14. A method as in claim 5, wherein said processing comprises determining information about processing by said domain, and adjusting a speed of processing of the e-mails based on said information of processing of said domain.

- 15. A method as in claim 14, wherein said information about processing comprises speed of e-mail processing.
- 16. A method as in claim 1, further comprising: maintaining a log representing information relating to e-mails which have been processed in said software package; and

comparing contents of said log with licensing information, to determine if said information e-mails exceeds a licensed number.

17. A method, comprising:

obtaining a plurality of e-mails for processing;
storing recovery information about a state of
processing of the e-mails to persistent storage, wherein
said recovery information comprises less than the entirety
of the e-mail; and

processing the e-mails to direct the e-mails to a desired location without writing the e-mail to persistent storage during said processing.

18. A method as in claim 17, wherein said processing comprises sending e-mails from an e-mail client to a desired location.

- 19. A method as in claim 17, wherein said processing comprises receiving e-mails and distributing said e-mails to specified destinations.
- 20. A method as in claim 17, wherein said recovery information includes information indicative of a plurality of e-mails, wherein each information indicative of each e-mail is indicative of less than the entire e-mail.
- 21. A method as in claim 19, wherein said information indicative of the e-mail includes a bit vector.
- 22. A method as in claim 17, wherein said processing arranging information about the e-mails into queues, each queue representing a single domain, and further comprising sending e-mails to a recipient, by sending a plurality of e-mails to a single domain at a specific sending instance.
- 23. A method as in claim 18, wherein said sending comprises opening a communication channel to a single specified domain, and sending a plurality of e-mails within the single communication channel.

- 24. A method as in claim 17, wherein said recovery information includes numbers of e-mails, and states of processing of said e-mails.
- 25. A method as in claim 22, further comprising selecting a queue to be processed, and sending e-mails from the queue all at once to the single domain.
- 26. A method as in claim 25, wherein said selecting comprises selecting a queue which has the most number of the e-mails within the queue.
- 27. A method as in claim 25, wherein said selecting comprises selecting a queue which has existed for greatest period of time.
- 28. A method as in claim 25, further comprising, during selection of a first queue, asynchronously looking up domain name server information for a second queue, different than the selecting queue.

- 29. A method as in claim 17, further comprising processing the e-mails by separating personalized information about each e-mail from non-personalized information.
- 30. A method as in claim 29, wherein said non-personalized information includes destination information for the e-mail.
- 31. A method as in claim 22, wherein said processing comprises determining a speed of processing of said domain, and adjusting a speed of processing of the e-mails based on said speed of processing of said domain.
- 32. A method as in claim 17, further comprising maintaining a log representing information relating to e-mails which have been processed; and

comparing contents of said log with licensing information, to determine if said information e-mails exceeds a licensed number.

33. A method, comprising:
obtaining a plurality of e-mails for processing:
forming queue information about said e-mails, which

assigns e-mails to one of a plurality of queues, each of the plurality of queues representing a destination for the e-mails; and

processing said e-mails in said queues to send said e-mails to said destination; and

adjusting a rate of said processing of said e-mails based on a rate of processing at said destination, to thereby carry out load-balancing.

34. A method as in claim 33, wherein said processing comprises:

processing the plurality of e-mails solely within non persistent storage, without requiring that information indicative of the e-mails be written to and then read from persistent storage during the processing of the e-mails.

35. A method as in claim 34, further comprising storing, in persistent storage, recovery information indicative of the processing, said recovery information being used for recovery from a system fault.

- 36. A method as in claim 35, wherein said recovery information includes information indicative of a plurality of e-mails, wherein each information indicative of each e-mail is indicative of less than the entire e-mail.
- 37. A method as in claim 36, wherein said recovery information indicative of the e-mail includes a bit vector.
- 38. A method as in claim 33, further comprising sending e-mails to a recipient, by sending a plurality of e-mails to a single domain at a specific sending instance.
- 39. A method as in claim 38, wherein said sending comprises opening a communication channel to a single specified domain, sending a plurality of e-mails within the single communication channel.
- 40. A method as in claim 36, wherein said recovery information includes numbers of e-mails, and states of processing of said e-mails.
- 41. A method as in claim 33, further comprising selecting a queue to be processed, and sending e-mails from the queue all at once to the single domain.

- 42. A method as in claim 41, wherein said selecting comprises selecting a queue which has the most number of the e-mails within the queue.
- 43. A method as in claim 41, wherein said selecting comprises selecting a queue which has existed for greatest period of time.
- 44. A method as in claim 41, further comprising, during selection of a first queue, asynchronously looking up domain name server information for a second queue, different than the selecting queue.
- 45. A method as in claim 33, further comprising processing the e-mails by separating personalized information about each e-mail from non-personalized information.
- 46. A method as in claim 45, wherein said nonpersonalized information includes destination information for the e-mail.

47. A method as in claim 33, further comprising maintaining a log representing information relating to e-mails which have been processed; and

comparing contents of said log with licensing information, to determine if said information e-mails exceeds a licensed number.

48. A method, comprising:

processing a plurality of e-mails in an e-mail
software package;

maintaining a log representing a number of e-mails which have been processed in said software package; and comparing results contents of said log with licensing information, to determine if a number of e-mails which has been processed exceeds the e-mails which have been licensed.

49. A method as in claim 48 further comprising:

processing the plurality of e-mails solely within non
persistent storage, without requiring that information
indicative of the e-mail be written to and then read from
persistent storage during the processing of the e-mail.

- 50. A method as in claim 49, further comprising storing, in persistent storage, recovery information indicative of the processing, said recovery information being used for recovery from a system fault.
- 51. A method as in claim 50, wherein said recovery information includes information indicative of a plurality of e-mails, wherein each information indicative of each e-mail is indicative of less than the entire e-mail.
- 52. A method as in claim 48, wherein said processing arranging information about the e-mails into queues, each queue representing a single domain, and further comprising sending e-mails to a recipient, by sending a plurality of e-mails to a single domain at a specific sending instance.
- 53. A method as in claim 52, wherein said sending comprises opening a communication channel to a single specified domain, sending a plurality of e-mails within the single communication channel.
- 54. A method as in claim 50, wherein said recovery information includes numbers of e-mails, and states of processing of said e-mails.

- 55. A method as in claim 52, further comprising selecting a queue to be processed, and sending e-mails from the queue all at once to the single domain.
- 56. A method as in claim 55, wherein said selecting comprises selecting a queue which has the most number of the e-mails within the queue.
- 57. A method as in claim 55, wherein said selecting comprises selecting a queue which has existed for greatest period of time.
- 58. A method as in claim 55, further comprising, during selection of a first queue, asynchronously looking up domain name server information for a second queue, different than the selecting queue.
- 59. A method as in claim 49, wherein said processing comprises determining a speed of processing of said domain, and adjusting a speed of processing of the e-mails based on said speed of processing of said domain.

60. A method, comprising:

obtaining a plurality of e-mails for processing;
forming organization information about said e-mails,
representing destinations for the e-mails;

sending a plurality of e-mails to a specific destination at a specific time; and

during the time of said sending, looking up a domain name information asynchronously, for a different specific destination to be sent at a future time.

- 61. A method as in claim 60, further comprising:

 processing the plurality of e-mails solely within non

 persistent storage, without requiring that information

 indicative of the e-mail be written to and then read from

 persistent storage during the processing of the e-mail.
- 62. A method as in claim 61, further comprising storing, in persistent storage, recovery information indicative of the processing, said recovery information being used for recovery from a system fault.

- 63. A method as in claim 61, wherein said recovery information includes information indicative of a plurality of e-mails, wherein each information indicative of each e-mail is indicative of less than the entire e-mail.
- 64. A method as in claim 60, wherein said processing arranging information about the e-mails into queues, each queue representing a single domain, and further comprising sending e-mails to a recipient, by sending a plurality of e-mails to a single domain at a specific sending instance.
- 65. A method as in claim 64, wherein said sending comprises opening a communication channel to a single specified domain, sending a plurality of e-mails within the single communication channel.
- 66. A method as in claim 63, wherein said recovery information includes numbers of e-mails, and states of processing of said e-mails.
- 67. A method as in claim 64, further comprising selecting a queue to be processed, and sending e-mails from the queue all at once to the single domain.

- 68. A method as in claim 67, wherein said selecting comprises selecting a queue which has the most number of the e-mails within the queue.
- 69. A method as in claim 67, wherein said selecting comprises selecting a queue which has existed for greatest period of time.
- 70. A method as in claim 67, further comprising, during selection of a first queue, asynchronously looking up domain name server information for a second queue, different than the selecting queue.
- 71. A method as in claim 63, wherein said processing comprises determining a speed of processing of said domain, and adjusting a speed of processing of the e-mails based on said speed of processing of said domain.
- 72. A method as in claim 60, further comprising maintaining a log representing numbers of e-mails which have been processed in said software package; and comparing contents of said log with licensing information, to determine if said numbers of e-mails exceeds a licensed number.

73. A method, comprising:

obtaining a plurality of e-mails for processing;

forming organization information about said e-mails
representing cues of the e-mails that are intended for
distribution two a common destination;

determining which queue to send that, based on characteristics of the e-mails in the queue.

- 74. A method as in claim 73, further comprising:

 processing the plurality of e-mails solely within non

 persistent storage, without requiring that information

 indicative of the e-mail be written to and then read from

 persistent storage during the processing of the e-mail.
- 75. A method as in claim 73, wherein said selecting comprises selecting a queue which has the most number of the e-mails within the queue.
- 76. A method as in claim 73, wherein said selecting comprises selecting a queue which has existed for greatest period of time.

- 77. A method as in claim 73, further comprising, during selection of a first queue, asynchronously looking up domain server name server information for a second queue, different than the selecting queue.
- 78. A method as in claim 73, further comprising storing, in persistent storage, recovery information indicative of the processing, said recovery information being used for recovery from a system fault.
- 79. A method as in claim 73, wherein said recovery information includes information indicative of a plurality of e-mails, wherein each information indicative of each e-mail is indicative of less than the entire e-mail.
- 80. A method as in claim 73, wherein said processing arranging information about the e-mails into queues, each queue representing a single domain, and further comprising sending e-mails to a recipient, by sending a plurality of e-mails to a single domain at a specific sending instance.

- 81. A method as in claim 80, wherein said sending comprises opening a communication channel to a single specified domain, sending a plurality of e-mails within the single communication channel.
- 82. A method as in claim 80, wherein said processing comprises determining a speed of processing of said domain, and adjusting a speed of processing of the e-mails based on said speed of processing of said domain.
- 83. A method as in claim 73, further comprising maintaining a log representing numbers of e-mails which have been processed in said software package; and comparing contents of said log with licensing

information, to determine if said numbers of e-mails exceeds a licensed number.